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Next-Generation Power and Sensor Technologies: Dual Space-Terrestrial Applications

Dr. Terry J. Hendricks, P.E., ASME Fellow¹

¹ Technical Group Supervisor, Thermal Energy Conversions Applications & Systems Group
Jet Propulsion Laboratory, California Institute of Technology
Pasadena, California, USA



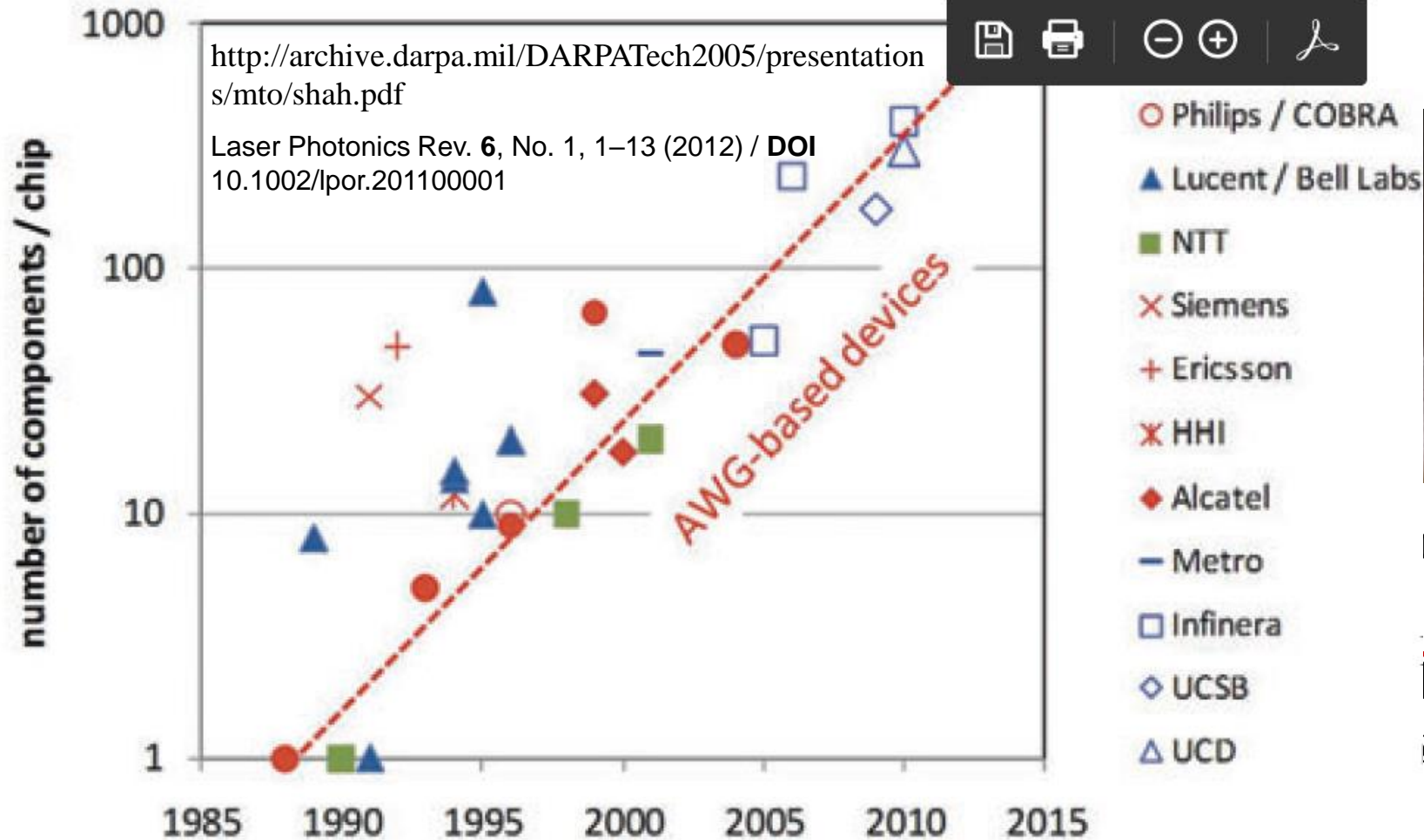
Jet Propulsion Laboratory
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Driving MegaTrends

- Energy Usage Increasing Due to Population

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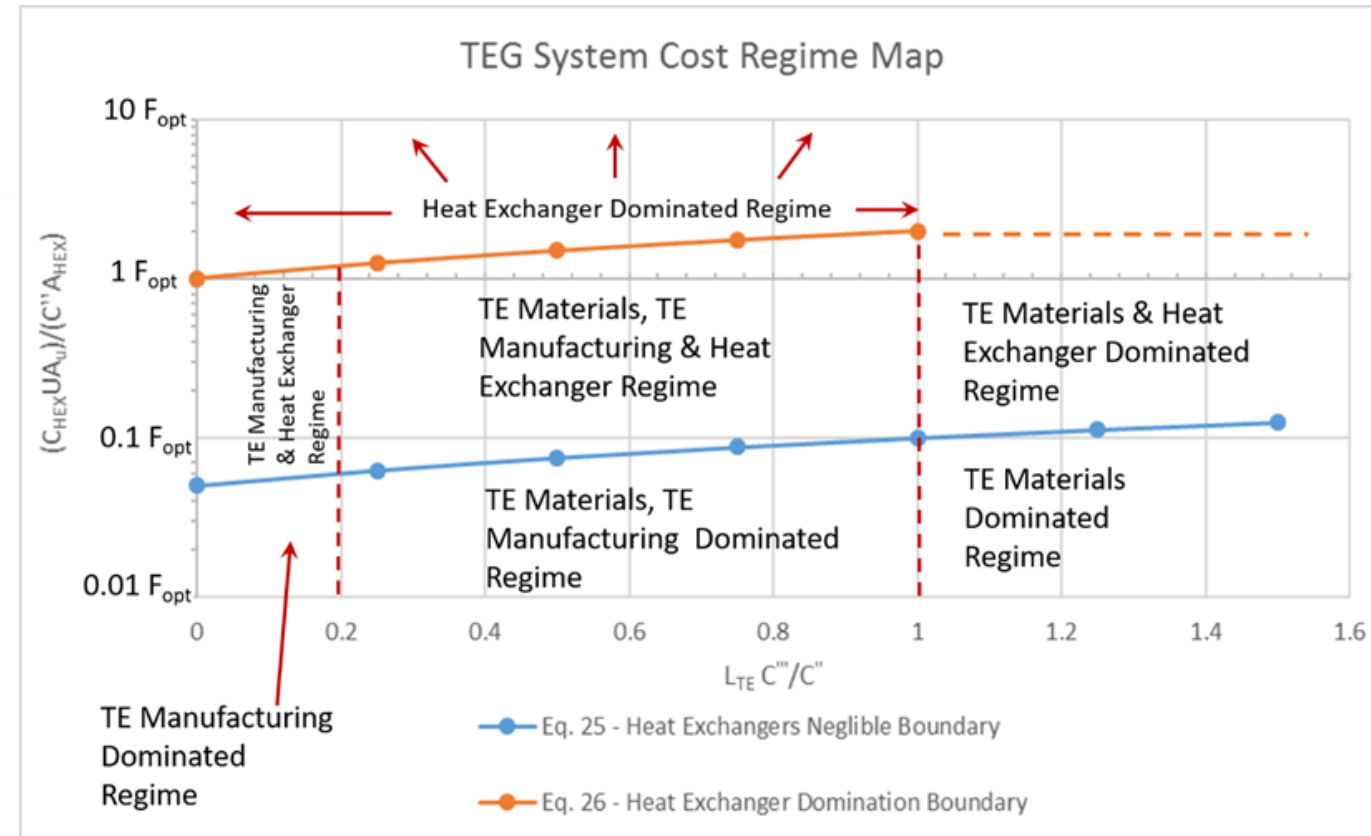
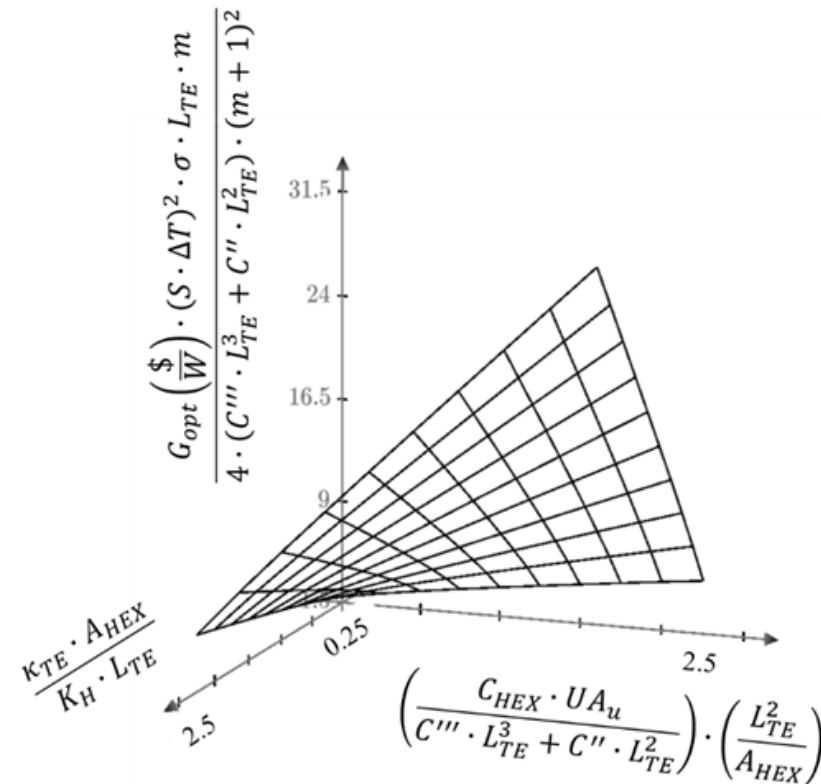
Autonomous Driving Vehicles on Earth

- Health and BioMedical Progress – People Living Longer, “Bionic Man & Woman”

Laws of Thermodynamics /Heat Transfer & Economics Intersect



- TEG Systems - If we work hard enough and long enough we can discover the relationships between the laws of heat transfer and thermodynamics and the laws of economics in our energy conversion systems – WE must!



Hendricks, T.J., “Heat Exchanger Performance Impacts on Optimum Cost Conditions in Thermoelectric Energy Recovery Design”, 14th European Conference on Thermoelectrics (Lisbon, Portugal), *Journal MaterialsToday: Proceedings*, Elsevier Ltd., www.sciencedirect.com, Paper # MATPR4597, DOI: 10.1016/j.matpr.2017.12.284, 2017.

Hendricks, T.J., “New Paradigms in Cost Optimization of Thermoelectric Energy Recovery Systems”, 15th European Conference on Thermoelectric (Padova, Italy), *Journal MaterialsToday: Proceedings*, Elsevier Ltd., www.sciencedirect.com, 2018.

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